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NOTICE OF ALLOWANCE AND FEE(S) DUE

21839

7590

03/24/2009

BUCHANAN, INGERSOLL & ROONEY PC POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404 EXAMINER

BELL, BRUCE F

ART UNIT PAPER NUMBER

1795

DATE MAILED: 03/24/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/685.797	10/16/2003	Sung-Hoon Lee	030681-575	5138

TITLE OF INVENTION: CATALYST FOR CATHODE IN FUEL CELL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/24/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE EEE and PURI ICATION EEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further of andicated unless correcte maintenance fee notificat	correspondence includir d below or directed oth	ng the Patent, advance herwise in Block 1, by	e orders and notification of y (a) specifying a new corre	maintenance fees we espondence address;	vill be mailed to the current and/or (b) indicating a sep	t correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDE	NCE ADDRESS (Note: Use Bl	ock 1 for any change of addre	Fee	e(s) Transmittal. Thi	mailing can only be used find it is certificate cannot be used I paper, such as an assignment of mailing or transmission.	for any other accompanying
BUCHANAN, POST OFFICE E ALEXANDRIA,			I h Sta ado trai	ereby certify that th	tificate of Mailing or Trans is Fee(s) Transmittal is bein vith sufficient postage for fir Stop ISSUE FEE address TO (571) 273-2885, on the o	g deposited with the United
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	₹	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/685,797	10/16/2003	•	Sung-Hoon Lee		030681-575	5138
TITLE OF INVENTION:				_		
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUI	E FEE TOTAL FEE(S) DUE	E DATE DUE
nonprovisional	NO	\$1510	\$300	\$ 0	\$1810	06/24/2009
EXAMI	INER	ART UNIT	CLASS-SUBCLASS	J		
BELL, BI	RUCEF	1795	429-012000			
"Fee Address" indi PTO/SB/47; Rev 03-0/ Number is required. 3. ASSIGNEE NAME AN PLEASE NOTE: Unla	ondence address (or Cha /122) attached. cation (or "Fee Address' 2 or more recent) attach ND RESIDENCE DATA	nge of Correspondence "Indication form led. Use of a Custome A TO BE PRINTED O lifted below, no assign	(1) the names of up to or agents OR, alternat (2) the name of a sing registered attorney or	o 3 registered patentively, the firm (having as a agent) and the namorneys or agents. If e printed. Type) Digital and assign	member a es of up to no name is 3	document has been filed for
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Ia. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 			
	us (from status indicated SMALL ENTITY statu		☐ b. Applicant is no lo	nger claiming SMAI	LL ENTITY status. See 37 C	CFR 1.27(g)(2).
	l Publication Fee (if requ	uired) will not be acce	pted from anyone other than	-		
Authorized Signature				Date		
Typed or printed name				Registration N	Jo	
This collection of information application. Confident submitting the completed	ation is required by 37 Ciality is governed by 35 application form to the	CFR 1.311. The inform U.S.C. 122 and 37 Cl USPTO. Time will v	ation is required to obtain or FR 1.14. This collection is eary depending upon the indi-	retain a benefit by the stimated to take 12 revidual case. Any co	he public which is to file (an minutes to complete, includi minuments on the amount of the mount	d by the USPTO to process) ng gathering, preparing, and me you require to complete

this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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10/685,797	10/16/2003	Sung-Hoon Lee	030681-575	5138		
21839 75	21839 7590 03/24/2009			EXAMINER		
BUCHANAN, II	NGERSOLL & ROO	BELL, BRUCE F				
POST OFFICE BO		ART UNIT	PAPER NUMBER			
ALEXANDRIA, V	/A 22313-1404	1795				
		DATE MAILED: 03/24/200	9			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 498 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 498 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	 10/685,797	LEE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Bruce F. Bell	1795	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr GHTS. This application is and MPEP 1308.	in this application. If not included nunication will be mailed in due cou	ırse. THIS
2. ☑ The allowed claim(s) is/are <u>4,13,15-17,22-25 and 28-31</u> .			
 3. Acknowledgment is made of a claim for foreign priority under a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Applicat	ion No	from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give			102 01
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Revi	ew (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			ck) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			e the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of	nformal Patent Application	
 □ Notice of References Cited (PTO-692) □ Notice of Draftperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413),	
3. ☑ Information Disclosure Statements (PTO/SB/08),	Paper No	o./Mail Date s Amendment/Comment	
Paper No./Mail Date <u>2/4/09</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	_	s Statement of Reasons for Allowa	nce
of Biological Material	9. 🔲 Other	<u>_</u> .	

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach and/or suggest a supported catalyst positioned within the pores of an electroconductive porous carrier having a catalyst particle alloy of either Cd and Au, Cd and Cu or Cd and Ni. The use of such catalyst in a fuel cell is also not taught and/or suggested. Further the use of a particle alloy of Cd and Ag, and Cd and Pt are additionally taught to be used in a fuel cell but are not taught in the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bruce F. Bell whose telephone number is 571-272-1296. The examiner can normally be reached on Monday-Friday 6:30 AM - 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 1795

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BFB March 17, 2009 /Bruce F. Bell/ Primary Examiner, Art Unit 1795